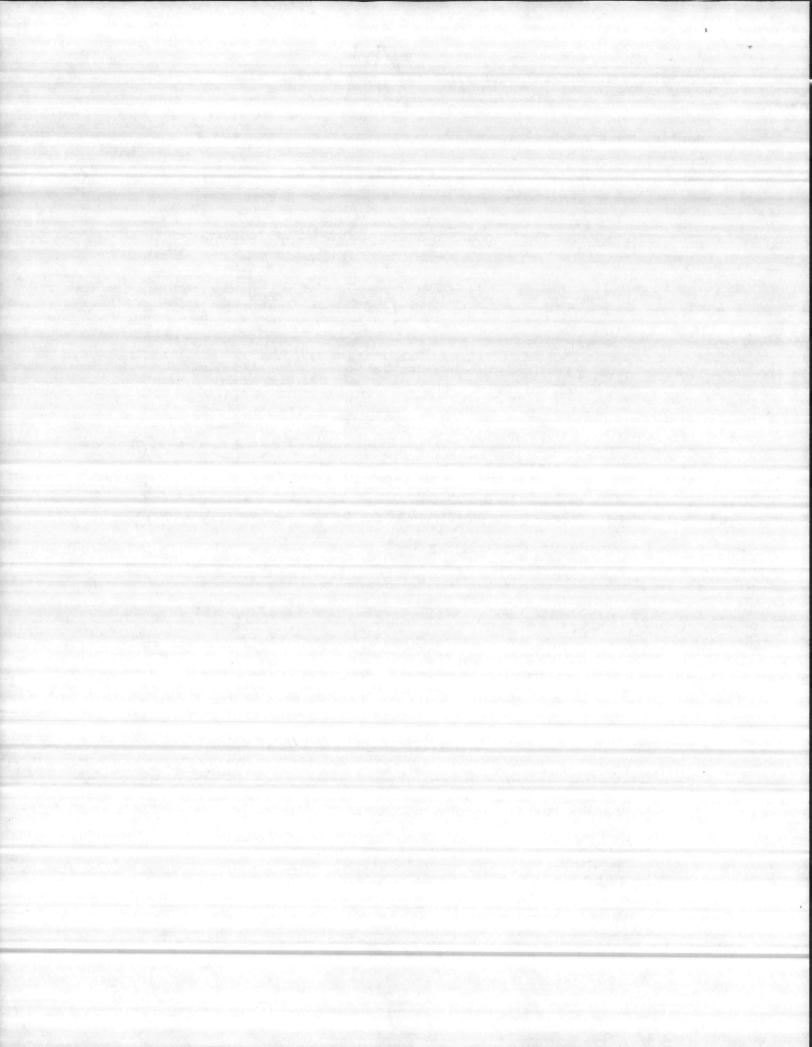
| CONTRACTOR'S SUBMITTAL TRANSMITTAL LANTDIV NORFOLK 4-4355/3 (Rev. 11-80) | | | 85-C-5142 | 1/ | to a find you keep | 08/26/87 | |
|--|---|--|---|-----------------------------|-------------------------------|---------------------------------------|------------|
| P. TO | O. BOX 1167 J | STMINSTER COMPANY ACKSONVILLE, NC 28540 ISE ASSOCIATES CHARLOTTE, NC 28205 | BACHELOR ENLI MARINE CORPS PROJECT 627 8 | STED QUA | AMP LEJE | UNE, NC 28 | 542 |
| | | CONTRACTOR USE ONLY | | | REVIE | EWER USE ONLY | |
| | L | *List only one specification division points only one of the following categories on each and indicate which is being submary.— | ch transmittal form, | | A-Appro D-Disag AN-App | | <i>1</i> . |
| X | Contractor Approved | OICC Approval | | Substitution CC Approval | C-Com | | |
| ITEM NO. | PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO. * | ITEM IDENTIFI (Type, size, model no., M brochure nur | CATION Ifg. name, dwg. or | NO. OF COPIES | ACTION CODES | REVIEWER' INITIALS CODE AND D | |
| | 02200 | EARTHWORK | | | | | |
| 4g | 2.1.2 | FILL, BACKFILL, STRUCTUR | AL FILL | ų. | A | HRO 81 | 26/ |
| 4c | 2.2 | POROUS FILL | | | 1 | | |
| ба | 2.1.2 | FILL & BACKFILL | | | | | |
| | 2.1.4 | SELECT MATERIAL | | | | | |
| 6b | | | | | | | |
| 6 c | 2.2 FRACTOR'S COMMENTS | POROUS FILL SAMPLES 1 AND 2 MEET PROSAMPLE 4a DID NOT PASS | OJECT 627 SELECT N | ATERIAL | REQUÍRE | EMENTS | |
| 6c CONT | 2.2 | SAMPLES 1 AND 2 MEET PRISAMPLE 4a DID NOT PASS | CONTRACTOR REPRESENTA | | REQUIRE | MENTS | |
| COPY | 2.2 FRACTOR'S COMMENTS OF TRANSMITTAL AND SU | SAMPLES 1 AND 2 MEET PRISAMPLE 4a DID NOT PASS | CONTRACTOR REPRESENTA | TIVE (Signature) | REQUIRE | MENTS | |
| COPY | 2.2 FRACTOR'S COMMENTS OF TRANSMITTAL AND SU RECEIVED BY REVIEWER UG 31 19 | SAMPLES 1 AND 2 MEET PRISAMPLE 4a DID NOT PASS BMITTALS TO ROICC FROM (Reviewer) ST J.N. PEASE | CONTRACTOR REPRESENTA HOLLIGHT ASSOC. TO | TIVE (Signature) | int. | IT DIV. | |
| COPY DATE | FRACTOR'S COMMENTS OF TRANSMITTAL AND SU RECEIVED BY REVIEWER U6 3 9 Submittals are returned tractor calls attention | SAMPLES 1 AND 2 MEET PRISAMPLE 4a DID NOT PASS | CONTRACTOR REPRESENTA TO ASSOC. To Res not include approval of any de | TIVE (Signature) | LAN- ne contract rec | ユエ D I レ・ quirements unless | |
| COPY DATE REVIE | PRACTOR'S COMMENTS OF TRANSMITTAL AND SU RECEIVED BY REVIEWER UG 3 9 Submittals are returne tractor calls attention Submittals are forward transmittal form. | SAMPLES 1 AND 2 MEET PRISAMPLE 4a DID NOT PASS BMITTALS TO ROICC FROM (Reviewer) A DID NOT PASS BMITTALS TO ROICC FROM (Reviewer) A DID NOT PASS TO ROICC TO R | CONTRACTOR REPRESENTA TO ASSOC. TO Res not include approval of any de | TIVE (Signature) | LAN- ne contract reconnects b | quirements unless to below on ONE COP | |
| COPY DATE REVIE | PRACTOR'S COMMENTS OF TRANSMITTAL AND SU ERECEIVED BY REVIEWER UG 31 97 Submittals are returne tractor calls attention Submittals are forward transmittal form. EWER'S COMMENTS | SAMPLES 1 AND 2 MEET PRISAMPLE 4a DID NOT PASS BMITTALS TO ROICC FROM (Reviewer) A. N. PEASE Individual control of an item does to and supports the deviation. Individual control of the deviation of the deviation. | CONTRACTOR REPRESENTA ASSOC. TO ASSOC. Bes not include approval of any decided in REVIEWER USE ONLY OES NOT CONF | TIVE (Signature) | LAN- ne contract reconnects b | quirements unless to below on ONE COP | |
| COPY DATE REVIE | PRACTOR'S COMMENTS OF TRANSMITTAL AND SU ERECEIVED BY REVIEWER UG 31 97 Submittals are returne tractor calls attention Submittals are forward transmittal form. EWER'S COMMENTS | SAMPLES 1 AND 2 MEET PRISAMPLE 4a DID NOT PASS BMITTALS TO ROICC FROM (Reviewer) J.N. PEASE Indigital with action indicated. Approval of an item does to and supports the deviation. Indicated to LANTDIV with A-E recommendations income to an action of the sample. | CONTRACTOR REPRESENTA ASSOC. TO ASSOC. Bes not include approval of any decided in REVIEWER USE ONLY OES NOT CONF | TIVE (Signature) | LAN- ne contract reconnects b | quirements unless to below on ONE COP | |
| COPY DATE REVIE | PRACTOR'S COMMENTS OF TRANSMITTAL AND SU ERECEIVED BY REVIEWER UG 31 97 Submittals are returne tractor calls attention Submittals are forward transmittal form. EWER'S COMMENTS | SAMPLES 1 AND 2 MEET PRISAMPLE 4a DID NOT PASS BMITTALS TO ROICC FROM (Reviewer) J.N. PEASE Indigital with action indicated. Approval of an item does to and supports the deviation. Indicated to LANTDIV with A-E recommendations income to an action of the sample. | CONTRACTOR REPRESENTA ASSOC. TO ASSOC. Bes not include approval of any decided in REVIEWER USE ONLY OES NOT CONF | TIVE (Signature) | LAN- ne contract reconnects b | quirements unless to below on ONE COP | |

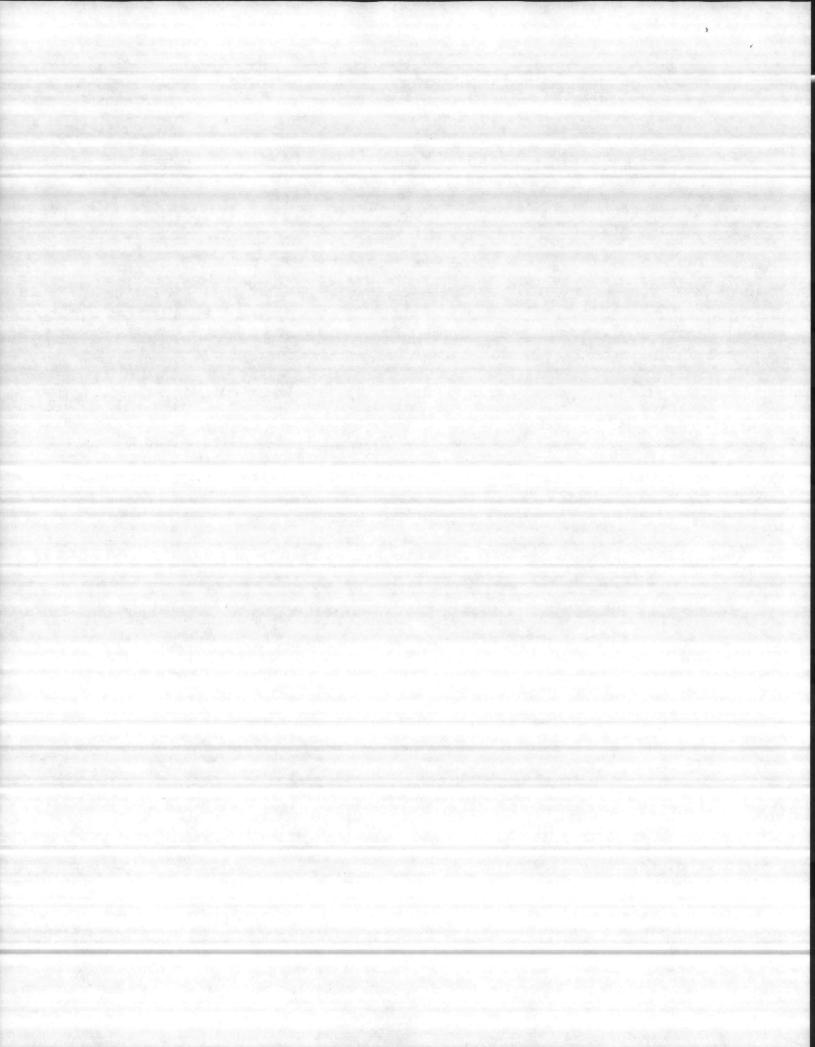


WEYERHAEUSER WESTMINSTER COMPANY

EASTERN REGION P.O. BOX 1167 JACKSONVILLE, NORTH CAROLINA 28540

To

BACHELOR ENLISTED QUARTERS MCB, CAMP LEJEUNE, NORTH CAROLINA CONTRACT NO. N62470-85-C-5142





ENGINEERING-SURVEYING-TESTING

217 HENDERSON DRIVE JACKSONVILLE, N. C. 28540 (919) 455-3564

July 24, 1987

Dickerson, Inc. 2444 Commerce Road Jacksonville, N.C. 28540

Ref: Bachelor Enlisted Quarters

MCB CLNC

N-62470-85-C-5142

Dear Sirs:

We at Surti and Associates have received sample #1 from the French Creek Borrow Pit for the above mentioned project. The following tests have been run and our findings are as follows:

Sample #1

A) ASTMC-136-84 Sieve Analysis

| , | ASING-ISO-OF SIEVE ANALYSI. | , |
|---|-----------------------------|-----------|
| | | % Passing |
| | No. 4 | 100,00% |
| | No. 10 | 99.84% |
| | No. 40 | 96.00% |
| | No. 200 | . 44% |

- B) ASTM-1140 Materials finer than the 200 Sieve Passing 2.29%
- C) ASTMD-4318-84 Liquid Limits and Plastic Limits Plasticity Index Non-Plastic
- D) ASTMD-2487 Classification White Fine Sand (SP)

If you have any questions in this matter, please feel free to call.

sol, short drawings, cosolating Associate

M. L. Surti, P.E.

Conforms

COMPACTION TEST

Dickerson Inc.

Surti and Associates

DATE OF TEST 7-24-87

JACKSONVILLE, NORTH CAROLINA 28540 PROJECT Bachelor Enlisted Quarters

LOCATION OF PROJECT MCB CLNC

_JOB NO. C 5142

SAMPLE NO. 1 / Hole #1

DESCRIPTION OF SOIL White Fine Sand (SP)

BLOWS/LAYER 25 NO. OF LAYERS 3 WT. OF HAMMER 5.5

MOLD DIMENSIONS: DIAM. 4 IN. HT. 4.584 IN. VOL. 1/30

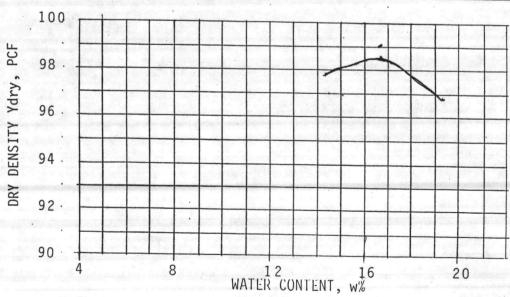
CU. FT.

WATER CONTENTS DETERMINATION

| SAMPLE NO. | | | | | | |
|-----------------------|--------|--------|--------|--------|--------|--------|
| MOISTURE CAN NO. | Α | В | С | D | E | F |
| WT. OF CAN + WET SOIL | 211.50 | 212.00 | 211.80 | 211.90 | 211.20 | 212.10 |
| WT. OF CAN + DRY SOIL | 193.30 | 189.40 | 186,50 | 183.00 | 178.90 | 177.80 |
| WT. OF WATER | 18.20 | 22.60 | 25.30 | 28.90 | 32.30 | 34.30 |
| WT. OF CAN | 11.50 | 12.00 | 11.80 | 11.90 | 11.20 | 12.10 |
| WT. OF DRY SOIL | 181.80 | 177.40 | 174.70 | 171.10 | 167.70 | 165.70 |
| WATER CONTENT % | 10.01 | 12.73 | 14.48 | 16.89 | 19,26 | 20.70 |

DENSITY DETERMINATION

| SUMED WATER CONTENT | | | | | | |
|----------------------|--------|--------|--------|--------|--------|--------|
| WATER CONTENT w% | | | | | | |
| WT. OF SOIL + MOLD | 5863 | 5896 | 5945 | 5991 | 5998 | 5979 |
| WT. OF MOLD | 4250 | 4250 | 4250 | 4250 | 4250 | 4250 |
| WT. OF SOIL IN MOLD: | 1613 | 1646 | 1695 | 1741 | 1748 | 1729 |
| WET DENSITY, PCF | 106.67 | 108.86 | 112.10 | 115,14 | 115,60 | 114.35 |
| DRY DENSITY, PCF | 96.96 | 96.56 | 97.92 | 98.50 | 96,93 | 94.73 |



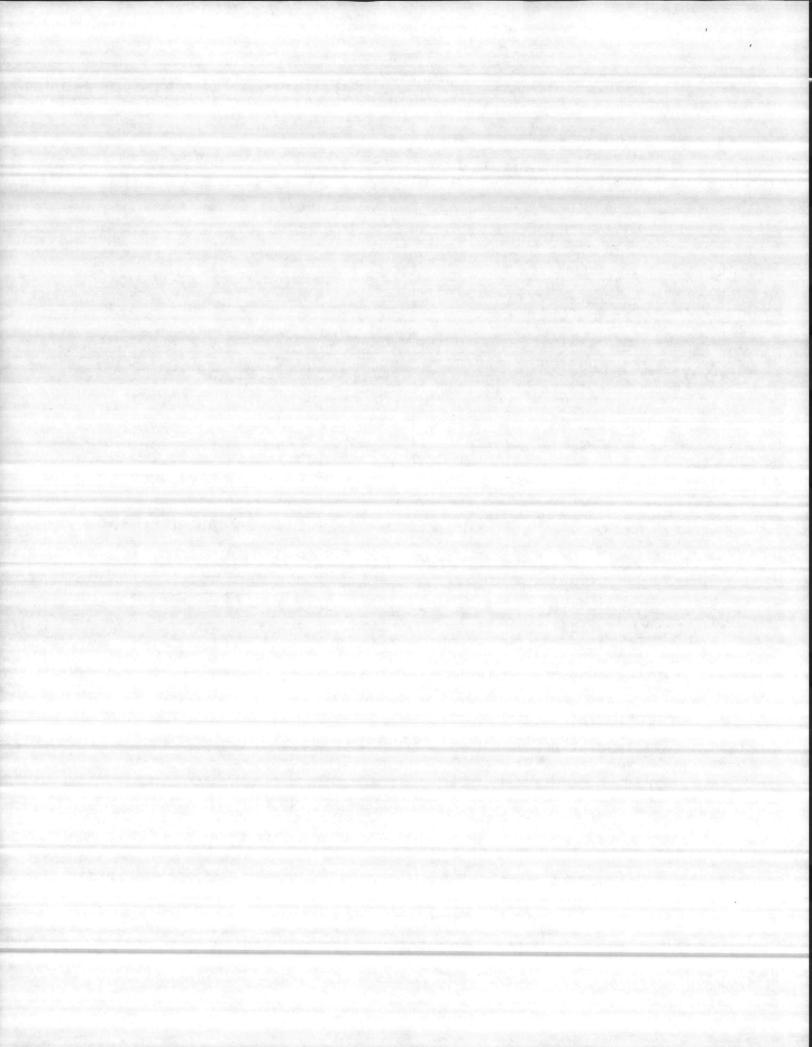
ASTM D-698 AASHOT

MIL.STD.

OPTIMUM MOISTURE 16.8

MAXIMUM DRY DENSITY

98.5





ENGINEERING - SURVEYING - TESTING

217 HENDERSON DRIVE JACKSONVILLE, N. C. 28540 (919) 455-3564

July 29, 1987

Dickerson, Inc. 2444 Commerce Road Jacksonville, N.C. 28540

Ref: Bachelor Enlisted Quarters

MICB CLNC

N-62470-85-C-5142

Dear Sir:

We at Surti and Associates have received sample #2 from the French Creek Borrow Pit for the above mentioned project. The following tests have been run and our findings are as follows:

Sample #2

A) ASTMC-136-84 Sieve Analysis

| / | cillo for or orche illia, | ., | |
|---|---------------------------|----|---------|
| | Sieve Designation | | Passing |
| | No. 4 | | 100,00% |
| | No. 10 | | 99,97% |
| | No. 40 | | 97,80% |
| | No. 200 | | 1.60% |

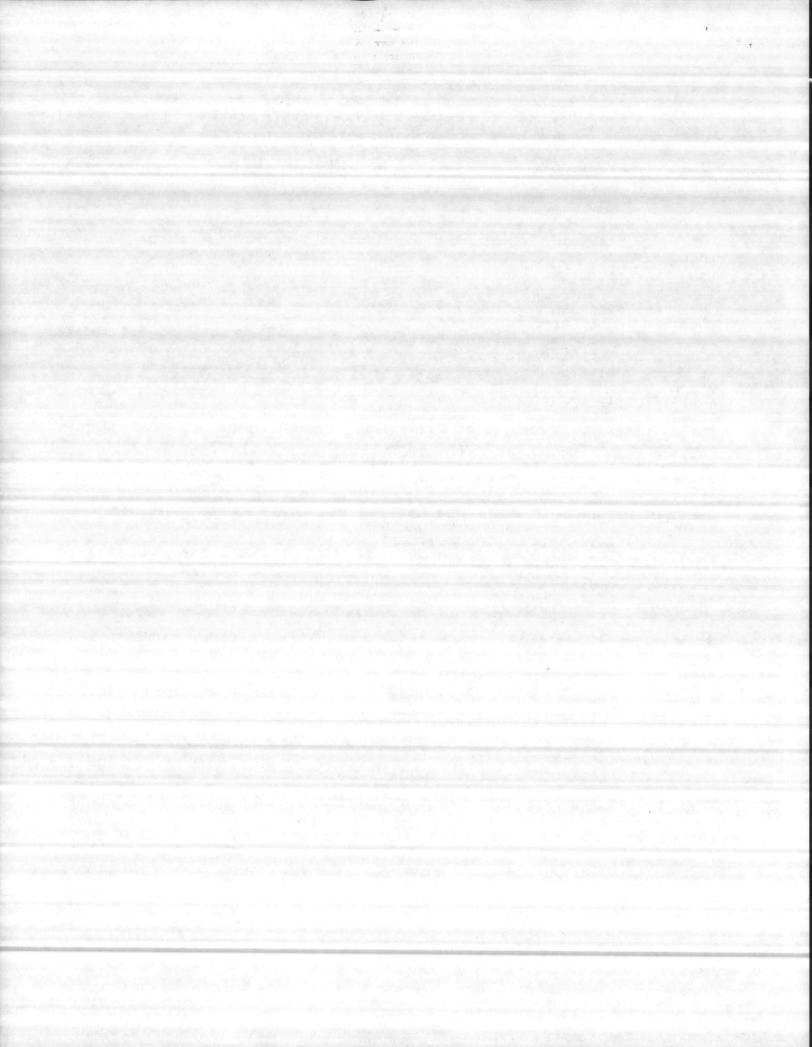
- B) ASTM-1140 Materials finer than the 200 Sieve Passing 4.86%
- C) ASTMD-4318-84 Liquid Limits and Plastic Limits Plasticity Index Non-Plastic
- D) ASTMD-2487 Classifications Light White Gray Fine Sands (SP)

If you have any questions in this matter, please feel free to call.

Sincerely, Surti and Associates

M.L. Surti, P.E.

Conforms



TESI

wurn and Associates

DATE OF TEST 7-24-87

Dickerson Inc.

217 HENDERSON DRIVE JACKSONVILLE, NORTH CAROLINA 28540

PROJECT Bachelor Enlisted Quarters JOB NO. C 5162 'CATION OF PROJECT MCB CLNC

SAMPLE NO.2 / Hole #2

DESCRIPTION OF SOIL Light White Gray Fine Sands (SP)

BLOWS/LAYER 25 NO. OF LAYERS 3 WT. OF HAMMER 5.5 LB.

MOLD DIMENSIONS: DIAM. 4 IN. HT. 4.584 IN. VOL. 1/30

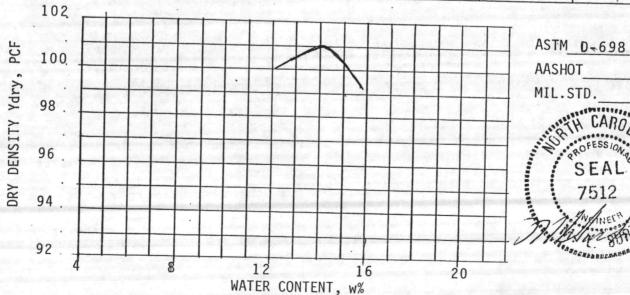
CU. FT.

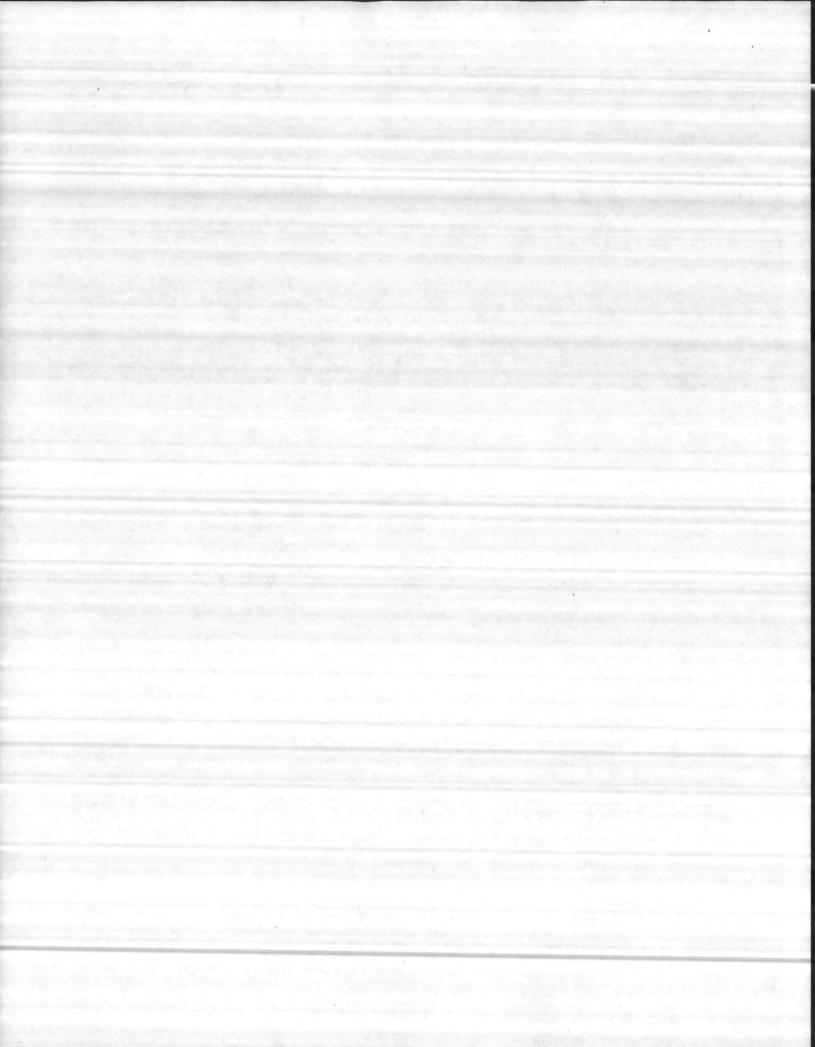
WATER CONTENTS DETERMINATION

| SAMPLE NO. | | | | | 1 | |
|-----------------------|--------|--------|--------|--------|--------|--------|
| MOISTURE CAN NO. | А | В | С | D | E | F |
| WT. OF CAN + WET SOIL | 211.40 | 211.30 | 211.00 | 211.50 | 211.60 | 211.30 |
| WT. OF CAN + DRY SOIL | 196.30 | 194.00 | 192.00 | 189.50 | 184.50 | 180.70 |
| WT. OF WATER | 15.10 | 17.30 | 19.00 | 22.00 | 27.10 | 30.60 |
| WT. OF CAN | 11.40 | 11.30 | 11.00 | 11.50 | 11.60 | 11.30 |
| WT. OF DRY SOIL | 184.90 | 182.70 | 181.00 | 178.00 | 172.90 | 169.40 |
| WATER CONTENT % | 8.16 | 9.46 | 10.49 | 12.35 | 15667 | 18.06 |

DENSITY DETERMINATION

| ASSUMED WATER CONTENT | | | | | | The State of the S |
|-----------------------|--------|--------|--------|--------|--------|--|
| . PER CONTENT W% | | | | | | St. British |
| WT. OF SOIL + MOLD | 5781 | 5830 | 5860 | 5896 | 5938 | 5935 |
| WT. OF MOLD | 4200 | 4200 | 4200 | 4200 | 4200 | 4200 |
| WT. OF SOIL IN MOLD: | 1581 | 1630 | 1660 | 1696 | 1738 | 1735 |
| WET DENSITY, PCF | 104.56 | 107.80 | 109.78 | 112.16 | 114,94 | 114.75 |
| DRY DENSITY, PCF | 96.67 | 98.48 | 99.35 | 99,83 | 99.36 | 97.19 |







ENGINEERING-SURVEYING-TESTING

217 HENDERSON DRIVE JACKSONVILLE, N. C. 28540 (919) 455-3564

July 29, 1987

Dickerson, Inc. 2444 Commerce Road Jacksonville, N.C. 28540

Ref: Bachelor Enlisted Quarters

MCB CLNC

N-62470-85-C-5142

Dear Sirs:

We at Surti and Associates have received Sample #3 from the French Creek Borrow Pit for the above mentioned project. The following tests have been run and our findings are as follows:

Sample #3

A) ASTMC-136-84 Sieve Analysis
Sieve Designation % Passing
No. 4 100.00%

| No. 4 | 100.00% |
|---------|---------|
| No. 10 | 99,87% |
| No. 40 | 94.87% |
| No. 200 | 5.64% |

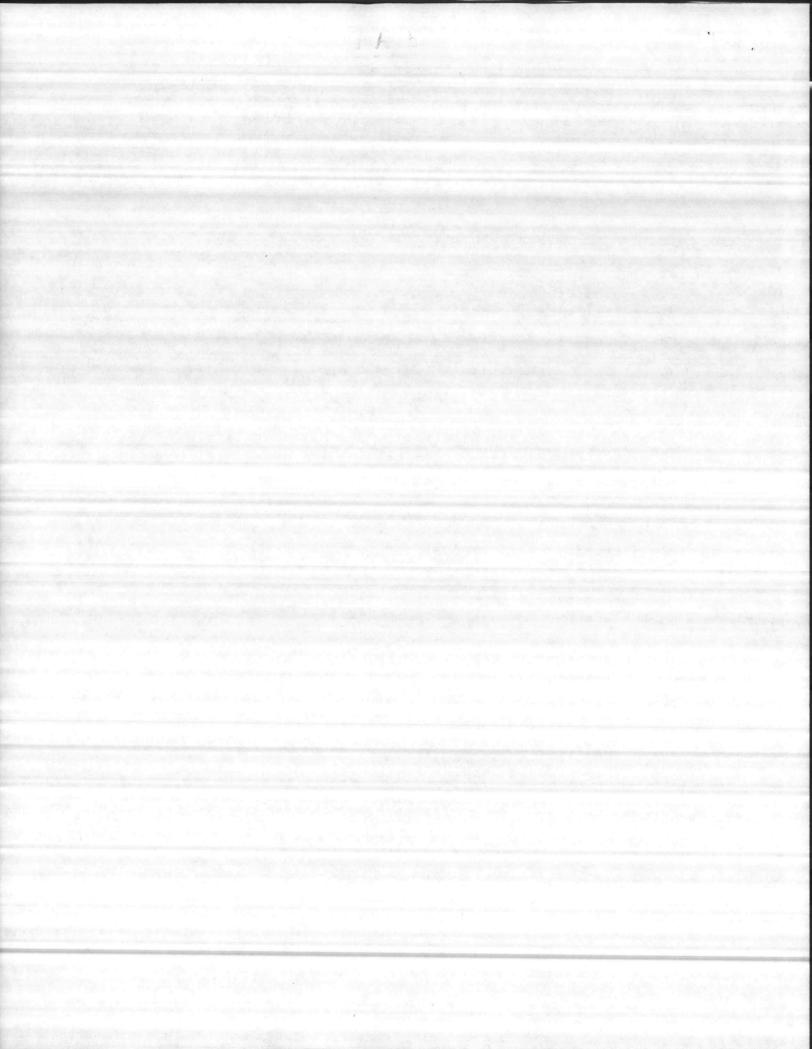
- B) ASTM-1140 Materials finer than the 200 Sieve Passing 12.70%
- C) ASTMD-4318-84 Liquid Limits and Plastic Limits Plasticity Index Non-Plastic
- D) ASTMD-2487 Classification Light Brown-Tannish Fine Sand (SM)

If you have any questions in this matter, please feel free to call.

Sincerely, Surti and Associates

M.L. Surti, P.E.

Conforms



COMPACTION TEST

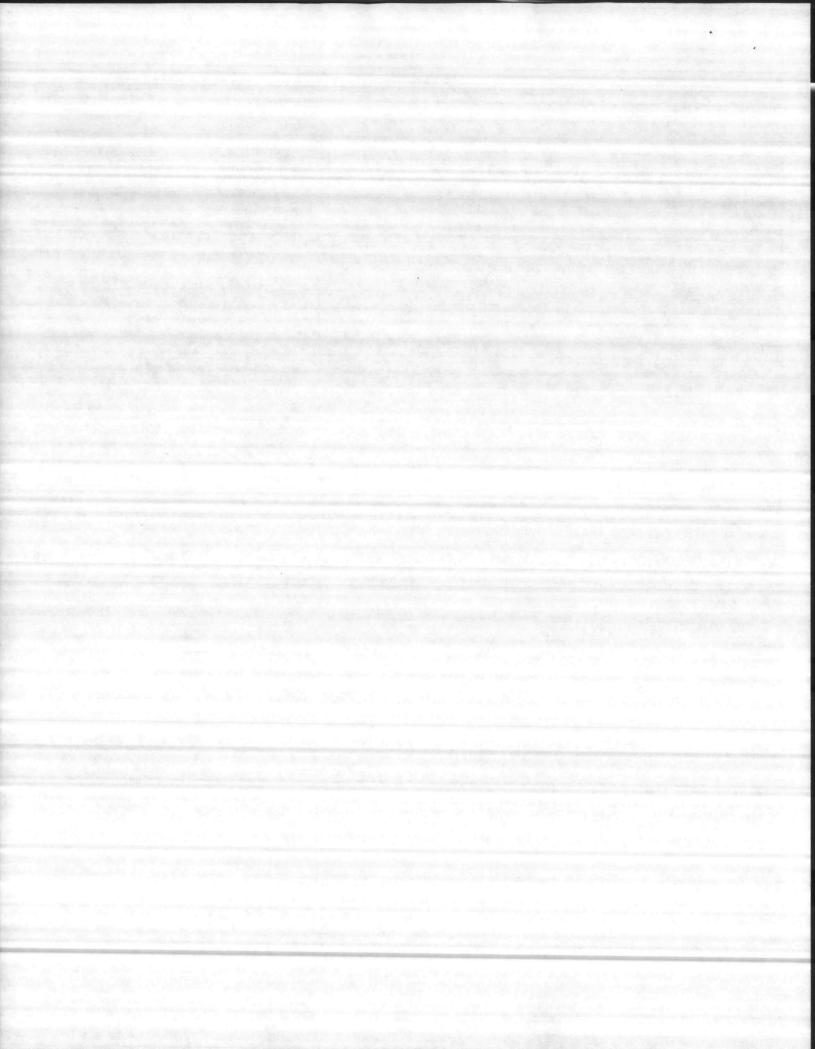
Dickerson, Inc.

Surti and Associates

| ٠. | 7- | 24 | -87 | 7 |
|----|----|----|-----|---|

DATE OF TEST

| PROJECT Bachelor Enl | listed Qua | rters | | JOB NO | C 5142 | |
|------------------------|--|---------------------------|------------|--|---|--------------|
| LOCATION OF PROJECT | 1CB CLNC | | | | NO. 3 / H | A ST ROOM TO |
| DESCRIPTION OF SOIL_L | .ight Brown | n-Tannish | Fine Sand | The second secon | NO | |
| BLOWS/LAYER 2 | 25 NO. OF I | _AYERS3 | WT. OF | HAMMER 5.5 | | LB |
| MOLD DIMENSIONS: DIAM | i <u> 4 </u> | IN. HT. 4. | 584 IN. VO | 1/30 | Commence of the second | |
| WATER CONTENTS DETERMI | | V | | | | CU. FT |
| SAMPLE NO. | | | | | | |
| MOISTURE CAN NO. | Α | В | C | D | E | |
| WT. OF CAN + WET SOIL | 211.70 | 211.40 | 211.10 | 211.10 | 211.60 | F 324.00 |
| WT. OF CAN + DRY SOIL | 196.70 | 194.40 | 190.70 | 188.40 | 185.60 | 291.80 |
| WT. OF WATER | 15.00 | 17.00 | 20.40 | 22.70 | 26.00 | 32.20 |
| WT. OF CAN | 11.70 | 11.40 | 11.10 | 11.10 | 11.60 | 124.00 |
| WT. OF DRY SOIL | 185.00 | 183.00 | 179.60 | 177.30 | 174.00 | 167.80 |
| WATER CONTENT % | 8.10 | 9.28 | 11.35 | 12.80 | 14.94 | 19.18 |
| SUMED WATER CONTENT | | | | | | |
| WATER CONTENT w% | | | | | | 1 |
| WT. OF SOIL + MOLD | 5907 | 5950 | 5983 | 6036 | 6064 | 6024 |
| WT. OF MOLD | 4250 | 4250 | 4250 | 4250 | 4250 | 4250 |
| WT. OF SOIL IN MOLD: | 1657 | 1700 | 1733 | 1786 | 1814 | 1774 |
| WET DENSITY, PCF | 109.58 | 112.43 | 114.61 | 118.12 | 119.97 | 117.32 |
| DRY DENSITY, PCF | 101.36 | 102.88 | 102.92 | 104.71 | 104.37 | 98.43 |
| 106 | | | | | | |
| 104 | | | | | ASTM | D-698 |
| 104 | | | | | AASH | ЮТ |
| dry | | | | | MIL. | STD |
| DENSITY Ydry, | | Light with depth of the h | | 7 | 1,12 | TH CARD |
| LIS 100 | | | | | Win. | OFESS 10 A |
| | | | | | # 5 # 5 | SEAL ! |
| 98 PK | | | | | | 7512 |
| _ 30 . | | | | | - | 1 |
| 96 | | | | | 11/1 | W South |
| 4 | 8 | 12 | 16 | 20 | | |
| | | WATER CO | ONTENT, w% | 20 | | |





ENGINEERING-SURVEYING-TESTING

217 HENDERSON DRIVE JACKSONVILLE, N. C. 28540 (919) 455-3564

July 29, 1987

Dickerson, Inc. 2444 Commerce Road Jacksonville, N.C. 28540

Ref: Bachelor Enlisted Quarters
MCB CLNC

N-62470-85-C-5162

Dear Sirs:

We at Surti and Associates have received sample # 4 from the French Creek Borrow Pit for the above mentioned project. The following tests have been run and our findings are as follows:

Sample #4

A) ASTMC-136-84 Sieve Analysis Sieve Designation % Passing

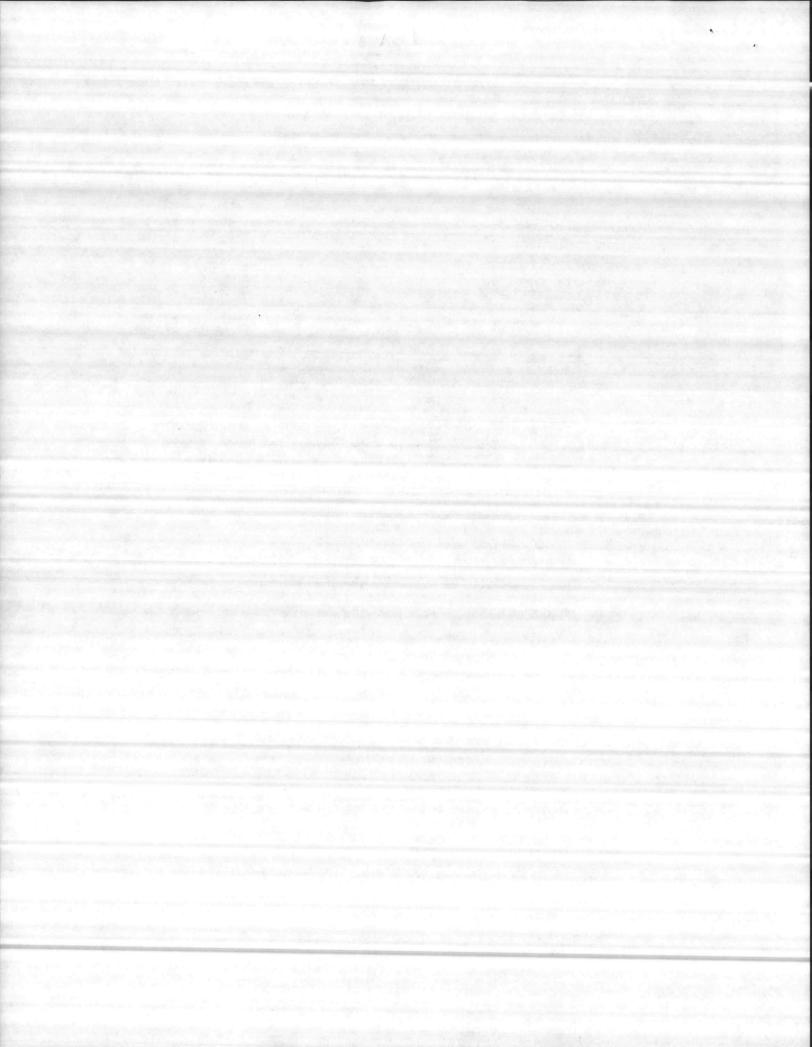
| | | [1] [1] [1] - (1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [|
|-----|-----|---|
| No. | 4 | 100,00% |
| No. | 10 | 99.94% |
| No. | 40 | 97.44% |
| No. | 200 | 4.54% |

- B) ASTM-1140 Materials finer than the 200 Sieve Passing 7.33%
- C) ASTMD-4318-84 Liquid Limits and Plastic Limits Plasticity Index Non-Plastic
- D) ASTM-2487 Classification Light Brown Silty Sand (SM-Sp)

If you have any questions in this matter, please feel free to call.

Sincerely, Surti and Associates

ConformSM.L. Surti, P.E.



COMPACTION TEST Dickerson 1

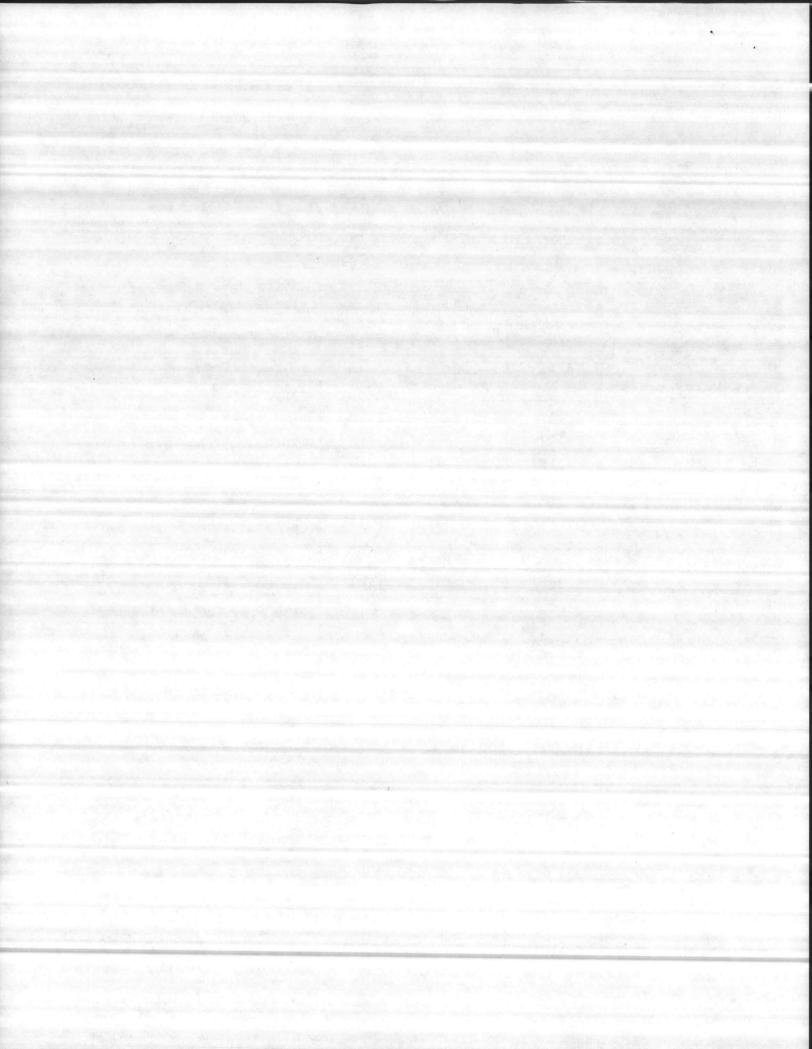
Surti and Associates

| DATE | OF | TES" |
|-------|----|------|
| DITTL | OI | ILS |

| | | 0 2 07 |
|--|------|------------|
| | | 8 - 3 - 87 |
| | | 040401 |

JACKSONVILLE, NORTH CAROLINA 28540 PROJECT Bachelor Enlisted Quarters LUCATION OF PROJECT MCB CLNC ____SAMPLE NO. 4 DESCRIPTION OF SOIL Light Brown Silty Sand (SM-SP) BLOWS/LAYER 25 NO. OF LAYERS 3 WT. OF HAMMER MOLD DIMENSIONS: DIAM, 4 IN. HT. 4.584 IN. VOL. 1/30 ___CU. FT. WATER CONTENTS DETERMINATION SAMPLE NO. MOISTURE CAN NO. Α В C D E WT. OF CAN + WET SOIL 211.50 211.10 211.70 211.40 211.20 WT. OF CAN + DRY SOIL 176.20 191.50 188.40 181.90 175.20 WT. OF WATER 15.30 29.60 22.30 29.50 36.00 11.20 WT. OF CAN 11.50 11110 11.70 11.40 WT. OF DRY SOIL 184.70 180.40 176.70 170.50 164.00 WATER CONTENT % 8.28 10.86 12.62 17.30 21.95 DENSITY DETERMINATION SUMED WATER CONTENT WATER CONTENT w% WT. OF SOIL + MOLD 55834 5283 5936 5974 5955 WT. OF MOLD 4200 4200 4200 4200 4200 WT. OF SOIL IN MOLD: 1634 1683 1736 1774 1755 WET DENSITY, PCF 108.06 111.30 114.81 117.32 116.07 DRY DENSITY, PCF 99.79 100.39 101.94 100.01 95.17 104 . ASTM D-698 AASHOT MIL.STD. SEAL 1 12 16

WATER CONTENT, w%





ENGINEERING-SURVEYING-TESTING

217 HENDERSON DRIVE JACKSONVILLE, N. C. 28540 (919) 455-3564

July 29, 1987

Dickerson, Inc. 2444 Commerce Road Jacksonville, N.C. 28540

Ref: Batchelor Enlisted Quarters

MCB CLNC

N-62470-85-C-5142

Dear Sirs:

We at Surti and Associates have received sample #4A from the French Creek Borrow Pit for the above mentioned project. The following tests have been run and our findings are as follows:

Sample #4A

A) ASTMC-136-84 Sieve Analysis

| / | mornio ree or order minary | | |
|---|----------------------------|---|---------|
| | Sieve Designation | % | Passing |
| | No. 4 | - | 100.00% |
| | No. 10 | | 94.84% |
| | No. 40 | | 70.44% |
| | No. 200 | | 8.30% |

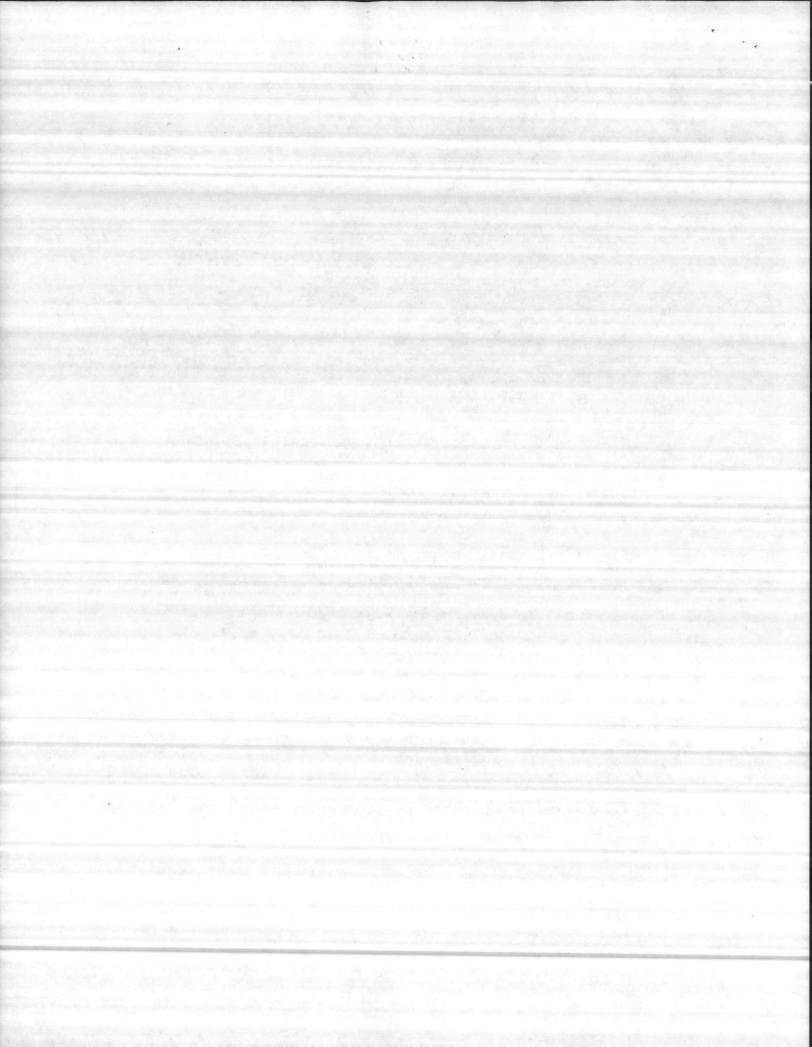
- B) ASTM-1140 Materials finer than the 200 Sieve Passing 33.66%
- C) ASTMD-4318-84 Liquid Limits and Plastic Limits Plasticity Index
- D) ASTM-2487 Classification Light Brown Silty Clay (SC)

If you have any questions in this matter, please feel free to call.

Sincerely, Surti and Associates

M. L. Surti , P.E.

DOES NOT CONFORM



-vickerson, Inc.

Surn and Associates

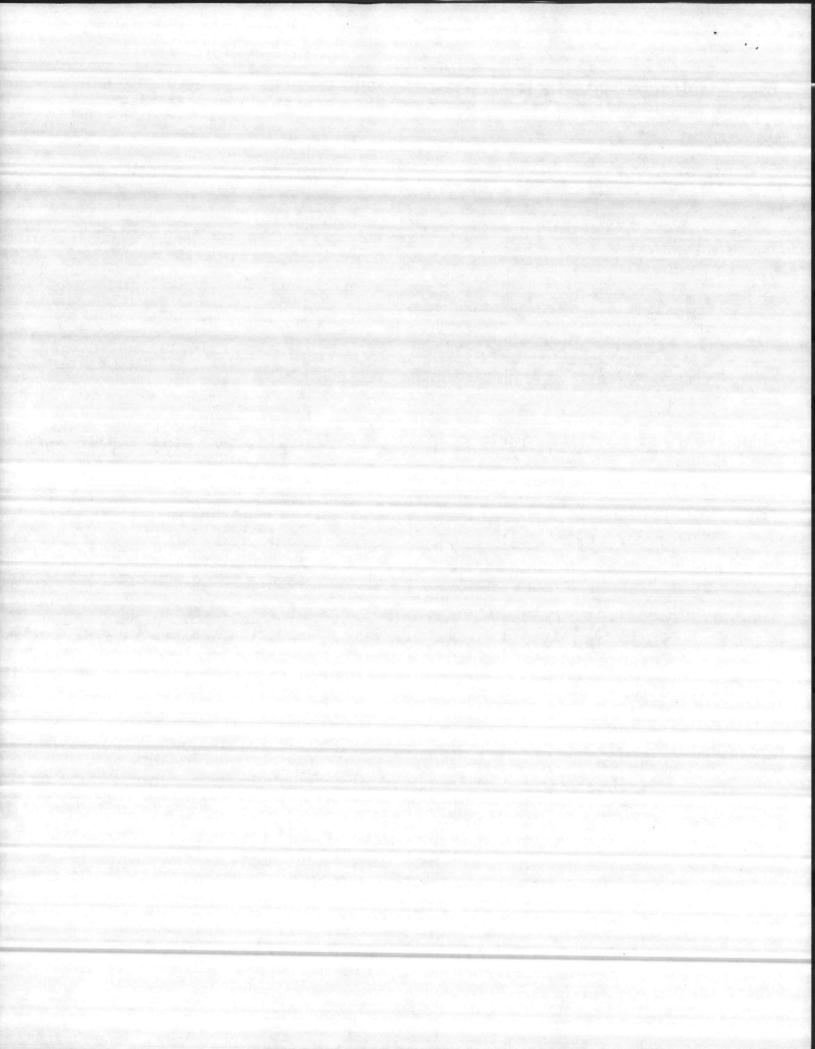
217 HENDERSON DRIVE

JACKSONVILLE, NORTH CAROLINA 28540

DATE OF TEST

7-28-87

| PROJECT Batchelor E | nlisted Qu | larters | Company only a sec | JOB NO | C-5162 | |
|------------------------|------------|---------------------|----------------------|----------|---------------|----------------|
| CATION OF PROJECT M | CB CLNC | | | SAMPLE | | |
| DESCRIPTION OF SOIL L | ight Brown | Silty Cla | y (SC) | | | |
| BLOWS/LAYER 2 | 5 NO. OF I | LAYERS 3 | WT. OF | HAMMER 5 | . 5 | LE |
| MOLD DIMENSIONS: DIAM | 4 | IN. HT <u>. 4.5</u> | 84 IN. VO | DL. 1/30 | | CU. FT |
| WATER CONTENTS DETERMI | NATION | | | | | |
| SAMPLE NO. | | | | T | | |
| MOISTURE CAN NO. | Α | В | С | D | E | |
| WT. OF CAN + WET SOIL | 211.50 | 211.90 | 211.90 | 211.50 | 211.90 | |
| WT. OF CAN + DRY SOIL | 190.90 | 188.30 | 184.30 | 180.60 | 178.00 | |
| WT. OF WATER | 20.60 | 23.60 | 27.60 | 30.90 | 33.90 | |
| WT. OF CAN | 11.50 | 11.90 | 11.90 | 11.50 | 11.90 | |
| WT. OF DRY SOIL | 179.40 | 176.40 | 172.40 | 169.10 | 16.61 | |
| WATER CONTENT % | 11.48 | 13.37 | 16.00 | 18.27 | 20.40 | |
| | | | er park up brokerst. | | | |
| DENSITY DETERMINATION | | | | | | |
| ASSUMED WATER CONTENT | | | | | | |
| ATER CONTENT W% | | | | | | and the second |
| WT. OF SOIL + MOLD | 5975 | 6081 | 6173 | 6173 | 6117 | |
| WT. OF MOLD | 4248 | 4248 | 4248 | 4248 | 4248 | |
| WT. OF SOIL IN MOLD: | 1727 | 1833 | 1925 | 1925 | 1869 | |
| WET DENSITY, PCF | 114.21 | 121.23 | 127.31 | 127.31 | 123.61 | |
| DRY DENSITY, PCF | 102.44 | 106.93 | 109.75 | 107.64 | 102.66 | |
| 112. | | | | | | |
| | | | | | ASTM | D-698 |
| 2 110. | | and the second | | | AASHO | |
| , y dry 108. | | | | | MIL.S | |
| ₹ 108. | | | | | 11.64.00.00 | CARO |
| <u> </u> | 4 62 5 | | | | i i i i i | ESSION |
| DENSIL | | | | | s | EAL |
| | | | | | 7 | 512 |
| 104. L | | | CHARLES AND PARTY OF | | 1.6 | GINEES . |
| | | | | 1 11 11 | Top of | SUR engage |
| 102 | | | | | 1//2 | Solding of the |
| 4 | 8 | WATER C | ONTENT, w% | 20 | | |
| OPTIMUM MOISTURE 16 | 2 0/ | | , 1170 | MAVILLE | OV DENCITY 11 | 0 0 |



MARTIN MARIETTA AGGREGATES

POST OFFICE BOX 1535 NEW BERN, NORTH CAROLINA 28560 TELEPHONE (919) 633-5036

August 19, 1987

Westminister Company P. O. Box 1167 Jacksonville, N. C. 28540

Re: N62470-85-5142

Batchelor's Enlisted Quarters MCB, Camp Lejeune, N. C.

Gentlemen:

We are pleased to advise that the concrete sand produced at our Belgrade, N. C. quarry meets the requirements of ASTM C-33 for fine aggregate, and therefore meets the specifications for granular fill for capillary water barriers for this project.

When tested according to ASTM D 1140, our concrete sand has the following average gradation:

#100 sieve 3/8" #200 % passing 100 99 81 24 1.5

At no time does the percent passing the #200 sieve exceed 3%.

Thank you for the opportunity to serve your crushed stone and sand requirements.

Larry B. Ward

NORTH CAROLINA CRAVEN County

Sworn to and subscribed before

me this 19th day of Aug., 1987.

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Commission Expires: 09-17-90

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